 24 July 1967

D R A F T

MEMORANDUM FOR THE RECORD

STAT SUBJECT: [redacted] PAR 203, 209, and 222

STAT On 11 June, I visited [redacted] for the purpose of monitoring

STAT PAR's 203,209 and 222 under Contract [redacted]

PAR 203 - Rapid Access Printer

STAT [redacted] will soon start Phase I, which will be a study of commercially available continuous-tone diazo and plastic resin reproduction systems which produce a positive, Specific materials that are known and will be included are Kalcon Film, Ozalid Unit Gamma Film, and Technifax K-Tone Film. I informed [redacted] that the Technifax Corporation now has a new continuous-tone high resolution diazo reproduction system capable of 200 l/mm. This material will be added to the list for investigation.

PAR 209 - Variable Contrast Phosphor Viewer

This device was delivered to P&DS several months ago for evaluation, and was demonstrated to a number of analysts in PID. These analysts found that there was virtually no enhancement observed with the device in its present configuration.

STAT [redacted] and I briefly discussed the possibility of investigating other phosphors for this device. The ultra violet output can probably be increased and the backlighting changed to as to allow full extinction. It was emphasized that a format size that would permit use of a microscope would be an adequate.

Declass Review by NGA.

If the decision is made to pursue this means of enhancement, I recommend

STAT that a new PAR be submitted [redacted]

PAR 222 - Stereo Image Registration

The mechanical-optical breadboard is being assembled and [redacted] plans to have this complete by July 15. A preliminary signal study has been completed in which an optical in-line breadboard was used for evaluation. Spot size was studied by scanning across a grid pattern and the minimum spot used was close to 0.002 inch projected on the film. It was attained with only a very low intensity beam.

On the breadboard, a single CRT will generate the scan trace so as to eliminate the problem of balancing two traces. Film will be held between glass plates, one which is fixed and the other mounted in a "Leitz" mechanical stage, which has 2 x 2 inch coordinates and 360 degree rotation. Micrometers adjust the x and y axis to 0.0001 inch and rotation can be read to one minute.

[redacted]